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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/759,298	01/20/2004	Shunichi Sekiguchi	2565-0277P	7183
2292 7590 08/27/2007 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			EXAMINER VO, TUNG T	
			ART UNIT 2621	PAPER NUMBER
			NOTIFICATION DATE 08/27/2007	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :07/06/07, 12/09/2005, 03/03/05, 05/11/04, 01/20/04.

Office Action Summary

Application No.

10/759,298

Applicant(s)

SEKIGUCHI ET AL.

Examiner

Tung Vo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 7-23 is/are pending in the application.
- 4a) Of the above claim(s) 1-6 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 7-23 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date See Continuation Sheet.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 7, 9-10, 12-14, 16, 18-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Maeda (US 5,353,062).

Re claims 7, 9-10, 12-14, 16, 18-23, Maeda discloses a moving picture prediction system for predicting a moving picture to be implemented in at least one of an encoding and a decoding (fig. 1), the moving picture prediction system comprising:

a plurality of memories (13a, 13b, and 14 of fig. 1) for storing picture data for reference to be used for prediction; and

a prediction picture generation section (15, 16, and 17 of fig. 1) including a motion compensator (15 of fig. 1) for receiving a parameter representing a motion of a picture segment to be predicted (inter or intra motion), and for generating a predicted picture by using the picture data stored in the plurality of memories based upon the parameter (15-17 of fig. 1), and

a memory update unit (31 of fig. 1) for updating the picture data stored in at least one of the plurality of memories with capability of controlling the number of the plurality of memories to be used for prediction;

a plurality of memories (13a, 13b, and 14 of fig. 1), each memory (13a, 13b, or 14 of fig. 1) corresponding to at least one of the plurality of deformation methods (forward, backward, and

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interpolation predictions are considered deformation methods, which are controlled by compensation counter, 30 of fig. 1) and storing the reference image for generating the predication image;

wherein the prediction image generation section (15-17 of fig. 1) generates the prediction image based on the reference image stored in one of the plurality of memories corresponding to the at least one of the plurality of deformation methods (based on compensation counter, 30 of fig. 1).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 8, 11, 15, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda (US 5,353,062) in view of Boon (US 6,415,056).

Re claims 8, 11, 15, and 17, Meada does not particularly disclose wherein the prediction image generation section generates the prediction image based on one of a parallel translation transform method, an affine transform method and a perspective transform method.

However, Boon teaches the prediction picture generation section to generate the prediction picture include a parallel translation transform method, an affine transform method and a perspective transform method (1106 of fig. 11, Note in the transformation parameter expander, divide the normalized parameters by exponent, and expand these transformation

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parameter. In the case affine parameters (a, b, c, d), find the maximum value among (a, b, c, d). In this case, the parameter of parallel translation (e, f) can be included; however, since these parameters typically have a different number of digits from the affine parameters, it had better not be included).

Therefore, taking the combined teachings of Meada and Boon as a whole, it would have been obvious to one of ordinary skill in the art to incorporate the teachings of Boon into the moving picture decoding apparatus (fig. 2) of Meada for pictures of different sizes are transformed into a common spatial coordinates, thereby increasing an accuracy of a motion detection and reducing coded quantity of the motion vector, as a result, picture quality is improved.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Suzuki et al. (US 5,481,553) discloses method and apparatus for preventing rounding errors when transform coefficients representing a motion picture signal are inversely transformed.

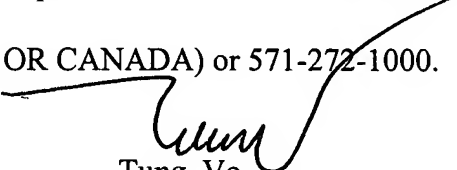
Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung Vo whose telephone number is 571-272-7340. The examiner can normally be reached on Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Tung Vo
Primary Examiner
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